

Comparisons of Job Characteristics

Focus Occupation: **Computer Systems Analysts (15-1051)**

Associated Occupation: **Network Systems and Data Communications Analysts (15-1081)**

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 82

Focus Occupation: Computer Systems Analysts (15-1051)

Associated Occupation: Network Systems and Data Communications Analysts (15-1081)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Computers and Electronics	8.4	21.2	19.3	0 Current knowledge level may be sufficient
Telecommunications	3.9	17.4	6.8	<< Extensive education and/or training may be required
Customer and Personal Service	11.3	13.4	15.4	> Current knowledge level is likely sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 76

Focus Occupation: Computer Systems Analysts (15-1051)

Associated Occupation: Network Systems and Data Communications Analysts (15-1081)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Systems Analysis	6.5	12.8	12.6	0 Current skill level may be sufficient
Operations Analysis	5.0	11.5	10.6	0 Current skill level may be sufficient
Systems Evaluation	6.4	11.5	12.7	> Skill level is likely sufficient
Troubleshooting	4.5	10.3	8.9	< A higher skill level may be required
Quality Control Analysis	5.9	10.0	10.3	0 Current skill level may be sufficient
Programming	2.2	9.6	10.2	0 Current skill level may be sufficient
Technology Design	2.6	9.1	9.7	0 Current skill level may be sufficient
Equipment Selection	3.3	8.5	5.5	<< Extensive development of skills in this area may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities		Similarity of Focus Occupation to Associated Occupation: 98			
Focus Occupation: Computer Systems Analysts (15-1051)					
Associated Occupation: Network Systems and Data Communications Analysts (15-1081)					
Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Deductive Reasoning	10.6	12.3	13.9	>	Current ability level is likely sufficient
Information Ordering	9.9	11.6	12.9	>	Current ability level is likely sufficient
Fluency of Ideas	7.6	9.7	12.7	>>	Current ability level is likely more than sufficient
Selective Attention	8.7	9.7	9.9	0	Current ability level may be sufficient
Originality	7.6	9.4	11.6	>	Current ability level is likely sufficient
Perceptual Speed	7.4	8.8	9.0	0	Current ability level may be sufficient
Speed of Closure	5.9	8.5	8.8	0	Current ability level may be sufficient
Memorization	5.6	7.3	7.3	0	Current ability level may be sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common		Similarity of Focus Occupation to Associated Occupation: 93
Focus Occupation: Computer Systems Analysts (15-1051) Associated Occupation: Network Systems and Data Communications Analysts (15-1081)		
Work Activities	Exclusivity of Activity	
Adjust computer operation system	84	
Communicate technical information	4	
Consult with customers concerning needs	69	
Evaluate computer system user requests or requirements	81	
Follow data security procedures	77	
Follow data storage procedures	75	
Implement computer system changes	92	
Maintain client-server database	89	
Maintain or repair computers or related equipment	81	
Monitor computer operation	85	
Operate computer networks	92	
Prepare technical reports or related documentation	22	
Program computers using existing software	85	
Program mainframe computer	84	
Provide technical computer training	82	
Provide technical support to computer users	80	

Recommend software or hardware purchases	85
Resolve symbolic formulations in data processing applications	89
Select business applications for computers	89
Test computer programs or systems	78
Train workers in use of equipment	87
Use computer application flow charts	84
Use computer networking technology	81
Use computers to enter, access or retrieve data	3
Use knowledge of mainframe computers	78
Use project management techniques	47
Use spreadsheet software	18
Write computer software, programs, or code	84

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: 88

Focus Occupation: Computer Systems Analysts (15-1051)

Associated Occupation: Network Systems and Data Communications Analysts (15-1081)

Tools and Technologies	Exclusivity
Business function specific software	1
Computers	1
Content authoring and editing software	1
Content management software	6
Data management and query software	1
Development software	4
Educational or reference software	12
Finance accounting and enterprise resource planning ERP software	2
Industry specific software	1
Network applications software	1
Network management software	37
Networking software	21
Operating environment software	12
Personal communication devices	2
Security and protection software	30
Utility and device driver software	17

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.